

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

ST0011	Overall LMA Rating	Total LMA Miles						
Sacramento Maintenance Yard West Levee Yolo Bypass	A	9.01						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.06		0.06	0.67%				
Encroachments					5.31			
Animal Control	0.01		0.01	0.11%				
Slope Stability	0.01		0.01	0.11%				
Erosion / Bank Caving							0.02	
Crown Surface / Depressions / Rutting	0.01		0.01	0.11%				
Repair Gates	0.01		0.01	0.11%				
<i>Structures & Concrete Lined Channels</i>								
Flap Gates	0.01		0.01	0.11%				
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.16		0.16	1.78%				
DWR UCIP Field Study					0.09	0.01		
<i>LMA Totals:</i>	0.27	0.00	0.27	3.00%	5.40	0.01	0.02	0.00

Unit No. 01 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	2.73						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					2.63			
<i>Supplemental</i>								
2015 USACE Erosion Survey, DRAFT	0.16		0.16	5.87%				
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.16	0.00	0.16	5.87%	2.64	0.00	0.00	0.00

Unit No. 02 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	1.52						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.79			
<i>Supplemental</i>								
DWR UCIP Field Study						0.01		
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.79	0.01	0.00	0.00

Unit No. 03 West Levee RB	Overall Unit Rating	Total Unit Miles						
ST0011	A	1.15						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Supplemental</i>								
DWR UCIP Field Study					0.01			
<i>Unit Totals:</i>	0.00	0.00	0.00	0.00%	0.01	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin (cont.)

Unit No. 04 West Levee RB		Overall Unit Rating	Total Unit Miles						
ST0011		A	3.61						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence		
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation	0.06		0.06	1.66%					
Encroachments					1.89				
Animal Control	0.01		0.01	0.28%					
Slope Stability	0.01		0.01	0.28%					
Erosion / Bank Caving							0.02		
Crown Surface / Depressions / Rutting	0.01		0.01	0.28%					
Repair Gates	0.01		0.01	0.28%					
Structures & Concrete Lined Channels									
Flap Gates	0.01		0.01	0.28%					
Supplemental									
DWR UCIP Field Study					0.07				
Unit Totals:	0.11	0.00	0.11	3.05%	1.96	0.00	0.02	0.00	

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 01 West Levee			Right	2.73
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/29/2016 - 3/29/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	10/20/2016 10/20/2016	Oleg Yakimov

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_ST0011_01_s _ 2013_5				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard has the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_ST0011_01_s _ 2013_6				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a stockpile of flood response materials.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_ST0011_01_s _ 2013_7				
Comment Code					
Inspector Comment					
The Sacramento Maintenance Yard maintains a written flood response plan and regular flood response training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	0.00	Rating **	M	Issue No.	10
LM End	1.55	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.758929 °	38.738955 °
				-121.667572 °	-121.660280 °
DWR ID	DWR_ST0011_01_f_2016_10				
Comment Code					
FE : Fence					
Inspector Comment					

LM Start	0.00	Rating **	M	Issue No.	10 (cont)
LM End	1.55	Issue Type +	En	Location *	LS

Photo 1 of 2 : FA_2016_ST0011_291_10_20161025_00010.jpg



View of fence located within 10-foot easement of landside toe. Fall 2016.

Photo 2 of 2 : FA_2016_ST0011_291_10_20161025_00009.jpg



Another view of fence located within 10-foot easement of landside toe. Fall 2016.

LM Start	0.94	Rating **	M	Issue No.	8
LM End	1.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.747888 °	38.734972 °
				-121.660202 °	-121.660265 °
DWR ID	DWR_ST0011_01_s_2012_8				
Comment Code					
DT : Ditch					
Inspector Comment					
The ditch is at the toe of the levee.					

Photo 1 of 1 : FA_2016_ST0011_291_8_20160913_00002.jpg



View of the ditch on the landward side of the levee. Fall 2015.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	1.46	Rating **	C	Issue No.	14
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.740310 °	38.732345 °
				-121.660274 °	-121.660286 °
DWR ID	DWR_ST0011_01_s_2016_14				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

LM Start	1.70	Rating **	M	Issue No.	9
LM End	1.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.736842 °	38.735498 °
				-121.660285 °	-121.660287 °
DWR ID	DWR_ST0011_01_f_2016_9				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 2 : FA_2016_ST0011_291_9_20161025_00008.jpg



View of fence along the ditch on landside. Fall 2016.

LM Start	1.70	Rating **	M	Issue No.	9 (cont)
LM End	1.79	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_ST0011_291_9_20161025_00007.jpg



Another view of fence along the ditch on landside. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	1.83	Rating **	M	Issue No.	3
LM End	1.83	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.734936 °	38.734936 °
				-121.660281 °	-121.660281 °
DWR ID	DWR_ST0011_01_f_2016_3				
Comment Code					
GA : Garbage					
Inspector Comment					

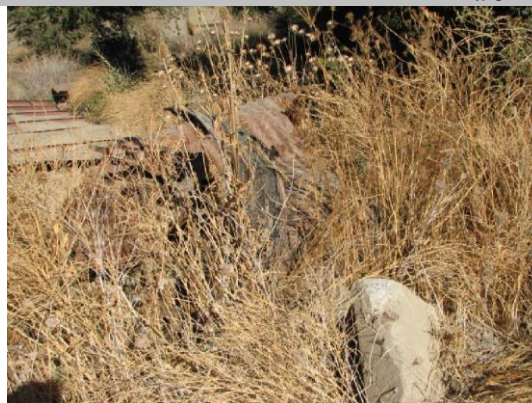
Photo 1 of 1 : FA_2016_ST0011_291_3_20161025_00006.jpg



View of garbage within 10-foot easement of LS levee toe. Fall 2016.

LM Start	1.85	Rating **	M	Issue No.	15
LM End	1.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.734568 °	38.734568 °
				-121.660264 °	-121.660264 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50785					
DS_ID:17744					
EP_NO: 10284					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Found abandoned 42-inch CM pipe on LS berm of the levee. This was abandoned by farmer, how Unknown. need to have verified if removed or concreted					
FIELD_STRUCT_DESC: 42-inch CM drainpipe through levee 25.0 feet below crown. Slide gate on waterward end. (ABO No. 10284 - Hershey).					
O&M manual 127, Revision Year 2011					
FS Date: 11/18/2016 2:55:55 PM					

Photo 1 of 2 : UCIP_FA_2016_50785_60276.jpg



Landside view: an abandoned CM pipe on LS berm of the levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	1.85	Rating **	M	Issue No.	15 (cont)
LM End	1.85	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.734568 °	38.734568 °
				-121.660264 °	-121.660264 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50785					
DS_ID:17744					
EP_NO: 10284					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Found abandoned 42-inch CM pipe on LS berm of the levee. This was abandoned by farmer, how Unknown. need to have verified if removed or concreted					
FIELD_STRUCT_DESC: 42-inch CM drainpipe through levee 25.0 feet below crown. Slide gate on waterward end. (ABO No. 10284 - Hershey).					
O&M manual 127, Revision Year 2011					
FS Date: 11/18/2016 2:55:55 PM					

Photo 2 of 2 : UCIP_FA_2016_50785_60275.jpg



Landside view: an abandoned CM pipe on LS berm of the levee.

LM Start	2.53	Rating **	M	Issue No.	2
LM End	2.69	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.725505 °	38.724385 °
				-121.662041 °	-121.664564 °
DWR ID	DWR_ST0011_01_s_2016_2				
Comment Code					
Inspector Comment					
2006 - Slow wave wash and general fluvial erosion of the toe area under river cobbles. Erosion is creating a scarp and cobble covered wave-cut bench. 2011 - Site appears better than it looked in 2006, but still eroding. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: YOL_2-6_R]					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 West Levee	Right	2.73	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	2.63	Rating **	M	Issue No.	4
LM End	2.72	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.724853 °	38.724228 °
				-121.663647 °	-121.665137 °
DWR ID	DWR_ST0011_01_s _ 2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is at the toe of the levee.					

Photo 1 of 1 : FA_2016_ST0011_291_4_20160913_00001.jpg



View of the ditch at the toe of the levee on the landward side. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 02 West Levee			Right	1.52
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/29/2016 - 3/29/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	0.47	Rating **	M	Issue No.	3
LM End	0.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.712813 °	38.706018 °
				-121.667349 °	-121.670831 °
DWR ID	DWR_ST0011_02_s_2012_3				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch was deepened to approximately 10 ft.					

Photo 1 of 3 : FA_2016_ST0011_292_3_20160913_00001.jpg



View of the ditch at the landward side of the levee looking downstream. Fall 2015.

LM Start	0.47	Rating **	M	Issue No.	3 (cont)
LM End	0.97	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2016_ST0011_292_3_20161025_00007.jpg



View of the ditch on landward side. Ditch was deepened to approximately 10 ft. Fall 2016.

LM Start	0.47	Rating **	M	Issue No.	3 (cont)
LM End	0.97	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2016_ST0011_292_3_20161025_00006.jpg



View of the ditch on landward side. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	0.98	Rating **	U	Issue No.	6
LM End	0.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.705952 °	38.705952 °
				-121.670875 °	-121.670875 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50782
DS_ID:17749
EP_NO: 10288
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 11/3/2016: Both slopes repaired by Sac Yard. However, siphon breaker on WS previously cited to have been leaking has not yet been repaired by Harlan Feed Co. and may continue to impact the slope. Siphon breaker also needs cover. Crossing remains Urgent. (K. Fazel - UCIP)06/28/2016: WS slope eroded along pipe alignment, having occurred since the 2013 repair due to leaky siphon breaker. Sac Yard to repair levee slope this summer. Blake Harlan agreed to repair the siphon breaker per phone conversation. (K. Fazel - UCIP)2013-2016: Sloughing at pipe day light on WS slope. A 8-inch pipe was not visible during field survey. Air vent leaking water when pump activated causing erosion around pipe on slope. summer of 2013 repaired sloughing around pipe air vent still leaking. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 5.2 feet below the crown. 8-inch pipe sleeved through the 24-inch pipe with the annular space grouted. A pump in a pumphouse at the landside (LS) toe, with wing walls at LS ditch. Siphon breaker on the waterside (WS) slope. Pump on LS ditch collects drainage from adjacent agricultural fields and pumps it to a ditch off the WS toe. Blake Harlan of Harlan Feed Co. leases the fields (from Cache Creek Ranch) that drain to this pipe and is responsible for O&M of the pipe: 530-662-8994 bharlan@harlanfeed.com. Another pump station (labeled Knaggs Ranch) next to this crossing off WS toe is not related to this crossing. (Automatic Board Order (ABO) issued as Permit No. 10288, 1974 - Cache Creek Ranch Co.). [Additional Reference(s): DWR Levee Log, 2004].
FS Date: 11/18/2016 2:47:10 PM

Photo 1 of 2 : UCIP_FA_2016_50782_60280.jpg



Waterside view: overview of pipe and water channel

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	0.98	Rating **	U	Issue No.	6 (cont)
LM End	0.98	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.705952 °	38.705952 °
				-121.670875 °	-121.670875 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50782
DS_ID:17749
EP_NO: 10288
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 11/3/2016: Both slopes repaired by Sac Yard. However, siphon breaker on WS previously cited to have been leaking has not yet been repaired by Harlan Feed Co. and may continue to impact the slope. Siphon breaker also needs cover. Crossing remains Urgent. (K. Fazel - UCIP)06/28/2016: WS slope eroded along pipe alignment, having occurred since the 2013 repair due to leaky siphon breaker. Sac Yard to repair levee slope this summer. Blake Harlan agreed to repair the siphon breaker per phone conversation. (K. Fazel - UCIP)2013-2016: Sloughing at pipe day light on WS slope. A 8-inch pipe was not visible during field survey. Air vent leaking water when pump activated causing erosion around pipe on slope. summer of 2013 repaired sloughing around pipe air vent still leaking. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 24-inch steel drainage pipe through the levee, 5.2 feet below the crown. 8-inch pipe sleeved through the 24-inch pipe with the annular space grouted. A pump in a pumphouse at the landside (LS) toe, with wing walls at LS ditch. Siphon breaker on the waterside (WS) slope. Pump on LS ditch collects drainage from adjacent agricultural fields and pumps it to a ditch off the WS toe. Blake Harlan of Harlan Feed Co. leases the fields (from Cache Creek Ranch) that drain to this pipe and is responsible for O&M of the pipe: 530-662-8994 bharlan@harlanfeed.com. Another pump station (labeled Knaggs Ranch) next to this crossing off WS toe is not related to this crossing. (Automatic Board Order (ABO) issued as Permit No. 10288, 1974 - Cache Creek Ranch Co.). [Additional Reference(s): DWR Levee Log, 2004].
FS Date: 11/18/2016 2:47:10 PM

Photo 2 of 2 : UCIP_FA_2016_50782_60279.jpg



Waterside view: pipe and siphon breaker

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 West Levee	Right	1.52	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	1.15	Rating **	M	Issue No.	5
LM End	1.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.703681 °	38.699637 °
				-121.672090 °	-121.674112 °
DWR ID	DWR_ST0011_02_s _ 2012_5				
Comment Code					
DT : Ditch					
Inspector Comment					
The ditch is at the toe of the levee.					

Photo 1 of 1 : FA_2016_ST0011_292_5_20160913_00002.jpg



View of the ditch on the landward side of the levee looking downstream.
Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 03 West Levee			Right	1.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/29/2016 - 3/29/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By	Ted Skidgel		Ted Skidgel Sacramento Maintenance Yard	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 West Levee	Right	1.15	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	0.00	Rating **	A	Issue No.	2
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.698595 °	38.677165 °
				-121.674120 °	-121.672764 °
DWR ID	DWR_ST0011_03_f_2016_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Acceptable vegetation on the landside of the levee.					

No Photos

LM Start	0.03	Rating **	M	Issue No.	3
LM End	0.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.698204 °	38.698204 °
				-121.674080 °	-121.674080 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:50772					
DS_ID:17756					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe not properly abandoned.					
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation or drainage pipe through the levee, 3 feet below the crown. As-Built					
FS Date: 11/18/2016 2:42:00 PM					

Photo 1 of 2 : UCIP_FA_2016_50772_60378.jpg



Waterside view: an abandoned steel pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 West Levee	Right	1.15	10/20/2016 10/20/2016	Oleg Yakimov

LM Start	0.03	Rating **	M	Issue No.	3 (cont)	
LM End	0.03	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			38.698204 °		38.698204 °
				-121.674080 °		-121.674080 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:50772						
DS_ID:17756						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe not properly abandoned.						
FIELD_STRUCT_DESC: *ABANDONED* 18-inch steel irrigation or						
drainage pipe through the levee, 3 feet below the crown. As-Built						
FS Date: 11/18/2016 2:42:00 PM						

Photo 2 of 2 : UCIP_FA_2016_50772_60377.jpg



Landside view: an abandoned steel pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway			Bank	Unit Miles
Unit No. 04 West Levee			Right	3.61
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	3/2/2016 - 3/2/2016		10/26/2016 - 10/26/2016	
DWR Inspector	Jai Lor		Oleg Yakimov	
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	0.00	Rating **	C	Issue No.	14
LM End	0.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.574293 °	38.573315 °
				-121.638713 °	-121.638742 °
DWR ID	DWR_ST0011_04_s_2016_14				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
Crown needs to be regraded.					

No Photos

LM Start	0.55	Rating **	M	Issue No.	13
LM End	0.55	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Repair Gates			38.566322 °	38.566322 °
				-121.638893 °	-121.638893 °
DWR ID	DWR_ST0011_04_f_2016_13				
Comment Code					
Inspector Comment					
Unable to open gates north of RR crossing. Steel rod hardly moves.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	0.62	Rating **	M	Issue No.	24
LM End	0.62	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.565489 °	38.565489 °	
			-121.638513 °	-121.638513 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44840 DS_ID:527 EP_NO: 6810 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to contact owner to determine status of pipeline and provide markers if appropriate. FIELD_STRUCT_DESC: One of two 4.5-inch pipes. Two 4-1/2-inch gas pipeline through levee. (Permit No. 6810 and 7230 - Getty Oil Co.). The pipe depth is 3.0 ft. below the crown. FS Date: 4/28/2015 3:04:20 PM					

No Photos

LM Start	0.62	Rating **	M	Issue No.	25
LM End	0.62	Issue Type +	En	Location *	CR
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.565473 °	38.565473 °	
			-121.638505 °	-121.638505 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44841 DS_ID:17741 EP_NO: 6810 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to contact owner to determine status of crossing and install signs if it is appropriate to do so. FIELD_STRUCT_DESC: Two of two 4.5-inch pipes. Two 4-1/2-inch gas pipeline through levee. (Permit No. 6810 and 7230 - Getty Oil Co.). The pipe depth is 3.0 ft. below the crown. FS Date: 4/28/2015 3:04:32 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	0.68	Rating **	M	Issue No.	12
LM End	0.69	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.564543 °	38.564403 °
				-121.638355 °	-121.638359 °
DWR ID	DWR_ST0011_04_f_2016_12				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0011_294_12_20161027_00009.jpg



Asphalt paved crown has depression at this site. Fall 2016.

LM Start	0.78	Rating **	M	Issue No.	2
LM End	0.78	Issue Type +	Ma	Location *	WS
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude	
				Start	End
Item	Flap Gates			38.563163 °	38.563163 °
				-121.637994 °	-121.637994 °
DWR ID	DWR_ST0011_04_s_2015_2				
Comment Code					
Inspector Comment					
There seems to be obstructions that prevents the gate from fully closing. Remove debris from flap gate.					

Photo 1 of 3 : FA_2016_ST0011_294_2_20160913_00001.jpg



View of a perspective on the pipe looking upstream. Spring 2015.

LM Start	0.78	Rating **	M	Issue No.	2 (cont)
LM End	0.78	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : FA_2016_ST0011_294_2_20160913_00002.jpg



View of the flap gate in the ditch on the water side of the levee. There seems to be debris preventing the flap gate from closing. Spring 2015.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	0.78	Rating **	M	Issue No.	2 (cont)	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Structures & Concrete Lined Channels			GPS Latitude/Longitude		
				Start	End	
Item	Flap Gates			38.563163 °	38.563163 °	
				-121.637994 °	-121.637994 °	
DWR ID	DWR_ST0011_04_s_2015_2					
Comment Code						
Inspector Comment						
There seems to be obstructions that prevents the gate from fully closing. Remove debris from flap gate.						

Photo 3 of 3 : FA_2016_ST0011_294_2_20161027_00011.jpg



Updated view of the flap gate not closed completely. Fall 2016.

LM Start	0.91	Rating **	M	Issue No.	6
LM End	1.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.561233 °	38.559502 °
				-121.638182 °	-121.637810 °
DWR ID	DWR_ST0011_04_s_2015_6				
Comment Code					
DT : Ditch					
Inspector Comment					
The ditch is at the toe of the levee on the landward side.					

Photo 1 of 1 : FA_2016_ST0011_294_6_20160913_00006.jpg



View of the ditch on the landward side of the levee looking downstream. Spring 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	0.99	Rating **	M	Issue No.	26
LM End	0.99	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.560139 °	38.560139 °	
			-121.638007 °	-121.638007 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44842 DS_ID:530 EP_NO: 6844 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to contact owner to determine status of crossing and add markers if it is appropriate to do so. FIELD_STRUCT_DESC: One of three gas pipes. Three 3-inch gas pipes through levee 8.2 feet below crown. (Permit No. 6844 -- Atlantic Oil Company). FS Date: 4/28/2015 3:04:44 PM					

No Photos

LM Start	0.99	Rating **	M	Issue No.	27
LM End	0.99	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		38.560128 °	38.560128 °	
			-121.638004 °	-121.638004 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44843 DS_ID:17739 EP_NO: 6844 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to contact owner to determine status of crossing and add gasline markers if it is appropriate to do so. FIELD_STRUCT_DESC: Two of three gas pipes. Three 3-inch gas pipes through levee 8.2 feet below crown. (Permit No. 6844 -- Atlantic Oil Company). FS Date: 4/28/2015 3:04:58 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	0.99	Rating **	M	Issue No.	28
LM End	0.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.560117 °	38.560117 °
				-121.638001 °	-121.638001 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44844 DS_ID:17740 EP_NO: 6844 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to contact owner to determine status of crossing and add gasoline markers if it is appropriate to do so. FIELD_STRUCT_DESC: Three of three gas pipes. Three 3-inch gas pipes through levee 8.2 feet below crown. (Permit No. 6844 -- Atlantic Oil Company). FS Date: 4/28/2015 3:05:16 PM					

No Photos

LM Start	1.00	Rating **	M	Issue No.	16
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.559998 °	38.559998 °
				-121.638014 °	-121.638014 °
DWR ID	DWR_ST0011_04_f_2016_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0011_294_16_20161027_00012.jpg



Slope was damaged by vehicle. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	1.44	Rating **	M	Issue No.	21
LM End	1.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.554636 °	38.554636 °
				-121.633619 °	-121.633619 °
DWR ID	DWR_ST0011_04_f_2016_21				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Animal burrow at LS toe.					

Photo 1 of 1 : FA_2016_ST0011_294_21_20161027_00018.jpg



View of an animal burrow. Fall 2016.

LM Start	1.57	Rating **	C	Issue No.	20
LM End	1.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Cracking			38.553105 °	38.553105 °
				-121.632170 °	-121.632170 °
DWR ID	DWR_ST0011_04_s_2016_20				
Comment Code					
CR1 : Monitor and have inspected by geotechnical engineer.					
Inspector Comment					

No Photos

LM Start	1.77	Rating **	M	Issue No.	3
LM End	2.69	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.550387 °	38.536958 °
				-121.631257 °	-121.631450 °
DWR ID	DWR_ST0011_04_s_2012_3				
Comment Code					
DT : Ditch					
Inspector Comment					
The ditch is at the toe of the levee on the landward side.					

Photo 1 of 1 : FA_2016_ST0011_294_3_20160913_00003.jpg



View of the ditch along the levee toe on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Sacramento Maintenance Yard West Levee Yolo Bypass

Page 8 of 11

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	2.14	Rating **	M	Issue No.	17 (cont)	
LM End	2.14	Issue Type +	Ob	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			38.545022 °		38.545022 °
				-121.631209 °		-121.631209 °
DWR ID	DWR_ST0011_04_f_2016_17					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
LS levee slope erosion on the edge of the ditch. Ditch is encroaching levee toe.						

Photo 2 of 2 : FA_2016_ST0011_294_17_20161027_00014.jpg



Perspective view of the erosion site. Fall 2016.

LM Start	2.23	Rating **	M	Issue No.	22
LM End	2.23	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.543645 °	38.543645 °
				-121.631199 °	-121.631199 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44838 DS_ID:532 EP_NO: 13135 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Need to contact owner to determine status of crossing and add markers if its appropriate to do so. FIELD_STRUCT_DESC: 2-inch diameter steel natural gas pipeline through the levee, 4 feet below the crown. (Permit No. 13135 - P. G. & E.) FS Date: 4/28/2015 3:03:13 PM					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	2.50	Rating **	M	Issue No.	23
LM End	2.50	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			38.539852 °	38.539852 °
				-121.631247 °	-121.631247 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:44839					
DS_ID:584					
EP_NO: 13350					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need to contact owner to determine status of crossing and add gasoline markers if its appropriate to do so.					
FIELD_STRUCT_DESC: To install a 2-inch steel gas pipeline 4.0 ft. below the crown through the levee. Permit No. 13350.					
FS Date: 4/28/2015 3:03:26 PM					

No Photos

LM Start	2.75	Rating **	M	Issue No.	4
LM End	3.60	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.536100 °	38.523807 °
				-121.631425 °	-121.631535 °
DWR ID	DWR_ST0011_04_s_2012_4				
Comment Code					
DT : Ditch					
Inspector Comment					
The ditch is at the levee toe on the landward side of the levee.					

Photo 1 of 2 : FA_2016_ST0011_294_4_20160913_00004.jpg



The ditch is at the levee toe on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Sacramento Maintenance Yard West Levee Yolo Bypass

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 04 West Levee	Right	3.61	10/26/2016 10/26/2016	Oleg Yakimov

LM Start	2.75	Rating **	M	Issue No.	4 (cont)	
LM End	3.60	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			38.536100 °		38.523807 °
				-121.631425 °		-121.631535 °
DWR ID	DWR_ST0011_04_s_2012_4					
Comment Code						
DT : Ditch						
Inspector Comment						
The ditch is at the levee toe on the landward side of the levee.						

Photo 2 of 2 : FA_2016_ST0011_294_4_20160913_00005.jpg



Looking west at the agricultural ditch. Fall 2015.

LM Start	2.94	Rating **	M	Issue No.	18
LM End	3.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.533424 °	38.532532 °
				-121.631354 °	-121.631368 °
DWR ID	DWR_ST0011_04_f_2016_18				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2016_ST0011_294_18_20161027_00015.jpg



View of vegetation on WS slope. Fall 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement